

	Application No.	Applicant(s)
Notice of Allowability	10/633,708	CHEN ET AL.
	Examiner	Art Unit
	Ling-Siu Choi	1713
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>09/02/2005</u> .		
2. X The allowed claim(s) is/are <u>1-8</u> .		
 Acknowledgment is made of a claim for foreign priority una a)	been received. been received in Application No	
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal B	atent Application (PTO-152)
2. ☐ Notice of Preferences Cited (F10-092)	6. ☐ Interview Summary	, , , ,
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	e
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	nt of Reasons for Allowance
	9.	

DETAILED ACTION

This Office Action is in response to the Amendment filed September 2, 2005.
 Claims 1-17 are now pending.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Brett S. Sylvester on November 11, 2005.

3. The application has been amended as follows:

Cancel claims 9-17.

Allowable Subject Matter

- 4. Claims 1-8 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

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The present claims are allowable over the closest references: Kathirgamanathan et al. (US 2003/0215669 A1).

A m	A method to reduce photoelectric device leakage current caused by residual metal ions		
in conjugated polymer, comprising			
À	providing a conjugated polymer or a precursor thereof for a photoelectric device		
В	forming a solution containing the conjugated polymer or the precursor thereof		
С	adding a chelating agent into the solution such that the residual metal ions		
	in the conjugated polymer material or the precursor thereof are chelated by		
	the chelating agent, in an amount of from 0.01 to 50 % based on the weight of		
	the conjugated polymer material or the precursor thereof		
D	forming a film for photoelectric device from the resulting solution		

(summary of claim 1)

Kathirgamanathan et al. disclose a method to make an electroluminescent device comprising (I) a first electrode, (ii) a hole transporting layer formed of a conjugated polymer, (iii) a layer consisting of an electroluminescent material, and (iv) a second electrode, wherein the conjugated polymer can be **poly(p-phenylene vinylene (PPV)** or copolymers thereof ([0011]-[0013];claims 1-7) and the **electroluminescent material has the formula of M(L_{\alpha})**_n with M being a rare earth metal, a transition metal, lanthanide, or an actinide ([0021]-[0022]; [0028]) and L $_{\alpha}$ being a crown ether ([0071]; Examples). Kathirgamanathan et al. further disclose that "the transporting material can be mixed with the electroluminescent material and co-deposited with it", wherein a solvent such as dichloromethane, n-methyl pyrrolidone, dimethyl sulphoxide,

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or tetra hydrofuran dimethylformamise can be used ([0073]; [0076]). However,

Kathirgamanathan et al. do not teach or fairly suggest a method comprising a step to

add a chelating agent into the solution of the conjugated polymer material to chelate the

residual metal ions, which is in an amount of from 0.01 to 50 % based on the weight of

the conjugated polymer material.

In light of the above discussion, it is evident as to why the present claims are

patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-

1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reach on 571-272-1114.

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LING-SUI CHOI PRIMARY EXAMINER

November 11, 2005